LISTING OF THE CLAIMS:

A listing and status of all claims 1-28 in the present application is provided below.

 (Original) A method of providing a manufacturing facility for producing a radioactive material, the method comprising:

designing the manufacturing facility to receive a cyclotron;

transporting the manufacturing facility to a site;

transporting the cyclotron to the site; and

enclosing the cyclotron inside the manufacturing facility.

- 2. (Original) The method of claim 1, further comprising the step of equipping the manufacturing facility with a synthesis unit which is designed to receive a first radioactive material from the cyclotron and to produce a second radioactive material.
- (Original) The method of claim 2, wherein the first radioactive material is a radioisotope and the second radioactive material is a radiopharmaceutical.
- (Original) The method of claim 2, wherein the synthesis unit receives ¹⁸F- from the cyclotron and produces 2-[¹⁸F]-fluoro-2-deoxyglucose.
- 5. (Original) The method of claim 2, wherein the second radioactive material is adapted for use in a Positron Emission Tomography scanner or a Single Photon Emission Computed Tomography scanner.
- 6. (Original) The method of claim 2, further comprising the step of equipping the manufacturing facility with a packaging room prior to transporting the manufacturing facility to the site.

- 7. (Original) The method of claim 1, further comprising the step of equipping the manufacturing facility with radiation shielding prior to transporting the manufacturing facility to shield radiation produced by the cyclotron.
- 8. (Original) The method of claim 1, further comprising the step of installing radiation shielding in walls of the manufacturing facility after the manufacturing facility has been transported to the site.
- (Original) The method of claim 6, further comprising the step of equipping the
 manufacturing facility with quality control equipment prior to transporting the manufacturing
 facility to the site.
- 10. (Original) The method of claim 9, further comprising the step of equipping the manufacturing facility with radiopharmaceutical packaging equipment prior to transporting the manufacturing facility to the site.
- 11. (Original) The method of claim 10, further comprising the step of equipping the manufacturing facility with a communications port prior to transporting the manufacturing facility to the site, the communications port being connected to at least one sensor on the cyclotron.
- 12. (Original) The method of claim 3, wherein the manufacturing facility is designed to satisfy all legal and regulatory requirements of the jurisdiction in which the site is located.
- 13. (Withdrawn) A method comprising the steps of:

receiving a manufacturing facility at a site, the manufacturing facility being substantially equipped for producing a radioactive material, except that the manufacturing facility lacks a cyclotron;

receiving a cyclotron at the site; enclosing the cyclotron within the manufacturing facility; and allowing the cyclotron to be removed from the manufacturing facility.

- 14. (Withdrawn) The method of claim 13, further comprising the step of allowing the manufacturing facility to be removed from the site.
- 15. (Withdrawn) The method of claim 13, further comprising the step of reselling at least one of the cyclotron and the manufacturing facility.
- 16. (Withdrawn) The method of claim 13, wherein the manufacturing facility, except for lacking a cyclotron during transport, is substantially equipped during transport to produce and package a radiopharmaceutical.
- 17. (Withdrawn) The method of claim 16, wherein the manufacturing facility is designed to satisfy all legal and regulatory requirements of the jurisdiction in which the site is located.
- 18. (Withdrawn) The method of claim 16, wherein the manufacturing facility is designed to satisfy all legal and regulatory requirements of the state and federal governments of the United States
- (Withdrawn) A method comprising the step of leasing a transportable manufacturing facility for manufacturing at least one radiopharmaceutical.
- 20. (Withdrawn) A manufacturing facility comprising:

a building structure which encloses working space of the manufacturing facility, the building structure being designed to house a cyclotron and to be transportable by truck or rail to a destination site, wherein the manufacturing facility, except for lacking a cyclotron during transport, is substantially equipped during transport to produce and package a radiopharmaceutical.

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- 21. (Withdrawn) The manufacturing facility of claim 20, wherein the building structure is designed to house a vertically oriented cyclotron.
- 22. (Withdrawn) The manufacturing facility of claim 20, wherein the building structure is designed to house a horizontally oriented cyclotron.
- 23. (Withdrawn) The manufacturing facility of claim 21, wherein the manufacturing facility comprises a synthesis unit which receives a radioisotope from the cyclotron and which produces the radiopharmaceutical.
- 24. (Withdrawn) The manufacturing facility of claim 21, wherein the manufacturing facility has an outside width of less than or equal to fourteen feet.
- 25. (Withdrawn) The manufacturing facility of claim 23, wherein the radiopharmaceutical is adapted for use in a Positron Emission Tomography scanner.
- 26. (Withdrawn) The manufacturing facility of claim 23, wherein the radiopharmaceutical is adapted for use in a Single Photon Emission Computed Tomography scanner.
- 27. (Withdrawn) The manufacturing facility of claim 23, wherein the manufacturing facility comprises a communications port, quality control equipment, and a packaging room.
- 28. (Withdrawn) The manufacturing facility of claim 20, wherein the manufacturing facility is designed to satisfy all legal and regulatory requirements of the jurisdiction in which the site is located.